

WO 2005/032132 A1

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number
WO 2005/032132 A1

(51) International Patent Classification⁷:**H04N 5/93**

(21) International Application Number:

PCT/KR2004/002508

(22) International Filing Date:

30 September 2004 (30.09.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data:

10-2003-0067176

27 September 2003 (27.09.2003) KR

(71) Applicant (for all designated States except US):
INHA-INDUSTRY PARTNERSHIP INSTITUTE [KR/KR]; 253 Yonghyeon-dong Nam-gu, Incheon 402-751 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JEONG, DONG SEOK [KR/KR]**; #3-305 Samik Apt. Seocho-dong Seocho-ku, Seoul 137-070 (KR). **KIM, TAE HEE [KR/KR]**; #103-210 Jangan Chowon Apt., Adong-dong Paju-si, Kyunggi-do 413-717 (KR).

(74) Agent: LEE, Won-Hee; 8th Fl. Sung-ji Heights II 642-16 Yoksam-dong Kangnam-ku, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

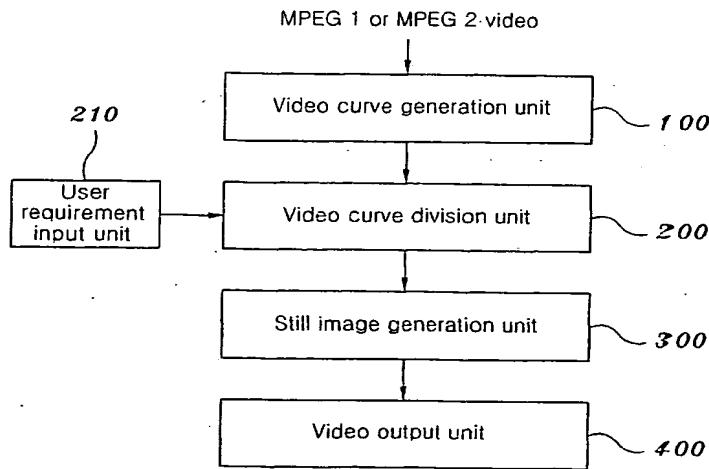
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR EXTRACTING THE REPRESENTATIVE STILL IMAGES FROM MPEG VIDEO



(57) Abstract: The present invention relates to an apparatus and method for extracting the representative still images from MPEG video. The apparatus includes a video curve generation unit for calculating the distances between the adjacent frames of all intra frames of input video a certain number of segments; at generation unit for selecting video certain points of the divided video video curve that is a video cumulative curve of curve division unit for dividing the least and generating a distances; a video curve into one still image images corresponding to curve as representative still images; and a video output unit for outputting the still images selected by the still image generation unit. In addition, the present invention can summarize the video and provide the representative still images to a user at high speed.